

Claims

- [c1] 1.A reamer drilling tool comprising: an elongated tool body including an exterior surface; a reamer unit; a pocket on the exterior surface of the tool body sized to accept the reamer unit therein with a portion of the reamer unit recessed in the pocket; and a plurality of pins engaging the tool body and securing the reamer unit within the pocket.
- [c2] 2.A reamer drilling tool according to claim 1 wherein the body has a fluid circulation bore therethrough.
- [c3] 3.A reamer drilling tool according to claim 1 wherein the end sections of the body are threaded whereby the body may be adjoined with tubular members of a drill string.
- [c4] 4.A reamer drilling tool according to claim 1 wherein the reamer unit includes a shaft, a substantially cylindrical roller mounted over said shaft, the roller being rotatable with respect of the shaft.
- [c5] 5.A reamer drilling tool according to claim 4 wherein the shaft includes a hole drilled therethrough that the pin may be passed through.

- [c6] 6.A reamer drilling tool according to claim 5 wherein the reamer unit is secured in the pocket when the pin is passed through the hole in the body into the pocket area, through the hole in the shaft of the reamer unit.
- [c7] 7.A reamer drilling tool according to claim 4 wherein the shaft includes flattened side surfaces selected to correspond to the shape of the pocket.
- [c8] 8.A reamer drilling tool according to claim 1 wherein the pins are spring pins.
- [c9] 9.A reamer drilling tool according to claim 1 wherein the pocket is formed to provide for mounting the reamer unit in an axially direction with respect to the body.
- [c10] 10.A reamer drilling tool according to claim 1 wherein the pocket is formed to provide for mounting the reamer unit in an slanted direction with respect to the body.
- [c11] 11.A reamer drilling tool according to claim 1 including a plurality of pockets spaced circumferentially about the body, each with a reamer unit mounted therein.
- [c12] 12.A reamer drilling tool according to claim 1 including a plurality of pockets spaced axially the body, each with a reamer unit mounted therein.